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What is claimed is:

1. A method of detecting orientation of an optical disk drive, comprising the steps of:

- driving a first force on a movable optical pick up head of the optical disk drive for a preset period;
- measuring a first moving distance of the movable optical pick up head;
- driving a second force on the movable optical pick up head for the time period, wherein the second force and the first force have opposite direction but same amplitude;
- measuring a second moving distance of the optical unit; and
- determining the difference between the first and second moving distances;
- determining the optical disk drive as horizontal orientation when the difference falls within a pre-determined value.
- 2. The method of claim 1, further comprising determining a inclined angle and an compensating gain signal of the optical disk drive according to the difference when the difference exceeds the pre-determined value.
- 3. The method of claim 1, wherein the amplitude of the first force and the second force are time varied forces.

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- 4. The method of claim 1, wherein the first force is directed away from a spindle motor of the optical disk drive.
- 5. The method of claim 1, wherein the second force is directed toward a spindle motor of the optical disk drive.
- 6. The method of claim 1, wherein the first and the second distances are measured by a photo interrupter or a Hall sensor.
- 7. The method of claim 1, wherein the first force and the second force have a fixed magnitude.
- 8. A method of detecting orientation of an optical disk drive, comprising the steps of:
 - driving a first force on a movable optical pick up
 head of the optical disk drive for a pre determined distance;
 - measuring a first moving time of the movable optical
 pick up head;
 - driving a second force on the movable optical pick up head for the pre-determined distance, wherein the second force and the first force have the same amplitude but opposite direction;
 - measuring a second moving time of the movable
 optical pick up head;
 - determining the difference between the first and second moving time;

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determining the optical disk drive as horizontal orientation when the difference falls within a pre-determined value.

- 9. The method of claim 8, further comprising determining a inclined angle and a compensating gain of the optical disk drive according to the difference between the first and second moving times.
- 10. The method of claim 8, wherein the amplitude of the first force and the second force are time varied forces.
- 11. The method of claim 8, wherein the first force is directed away from a spindle motor of the optical disk drive.
- 12. The method of claim 8, wherein the second force is directed toward a spindle motor of the optical disk drive.
- 13. The method of claim 1, wherein the first force and the second force have a fixed magnitude.

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